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ministering the ten-per-cent. road fund, forest officers charged with the actual plans and expenditures in the neighborhood of their forests have, in almost all cases, secured an equal or a larger cooperative fund from state authorities for the building of certain pieces of road. With the money thus expended many important roads are being built or put in repair. One on the Wyoming National Forest, six miles long, makes accessible to farmers a large body of timber and opens up a region of great scenic beauty. In northwestern Arizona, part of the fund will be used in connection with the LeFevre-Bright Angel road, important because it makes accessible to tourists the Grand Canyon of the Colorado. In one place, the ocean-to-ocean highway crosses the Apache National Forest, Arizona, and on this project the forest service and the local authorities cooperated enthusiastically. On the Florida national forest in western Florida steel bridges and graded roads have, under the stimulus of this fund, taken the place of corduroy, bog and sand. This federal road fund is now available in all national forest states of the west. Just as fast as returns come in, the forestry officials say, a similar fund will become available in states in which eastern national forests are being secured.

THE American Petroleum Society was organized on September 10 at the Experiment Station of the U. S. Bureau of Mines, Pittsburgh, Pa. This organization is the result of an effort of the bureau for the past seven years to bring together the men interested in the petroleum industry. Invitations were sent out in July to the secretaries of twenty-four of the national societies of the United States, inviting them to be present and cooperate in this organization. Eighteen of these societies responded at a meeting on August 1 at the Bureau of Mines. A similar invitation was sent out in August to eight additional societies, making a total of thirty-two societies that were invited to attend the September conference. A large number of these were represented at the meeting on September 10, when the final organization was completed. This society will concern itself with the study of

all phases of natural gases and petroleum, including the origin, statistics, conservation, drilling methods, production, transportation, storage, refining and specifications for refined products. At the meeting the constitution and by-laws were adopted, and officers were elected as follows: *president*, C. D. Chamberlin, of the National Petroleum Association, Cleveland, Ohio; *vice-president*, R. Galbreath, of the Independent Oil and Gas Producers' Association of Oklahoma, Tulsa, Okla.; *secretary*, Dr. Irving C. Allen, U. S. Bureau of Mines, Pittsburgh, Pa. It is anticipated that the first annual meeting will be held at some convenient place in the United States in the spring of 1914, and the second annual meeting will be held at the Panama Pacific Universal Exposition in San Francisco in 1915. At the 1915 meeting it is anticipated that all of the petroleum societies in the country will meet in one great congress. An invitation has been sent to the president of the International Petroleum Commission, which meets in January, 1914, in Bucharest, Roumania, to hold its annual meeting for 1915 in San Francisco.

UNIVERSITY AND EDUCATIONAL NEWS

MRS. W. BAYARD CUTTING and her children have given \$200,000 to Columbia University for a fund in memory of the late W. Bayard Cutting, of the class of '69, who served as trustee of the university from 1880 until his death, in 1912. The income of this fund is to be applied to the maintenance of traveling fellowships, open to graduate students of distinction in letters, science, law and medicine or engineering.

DR. GAVIN PATERSON TENNENT, of Glasgow, has bequeathed £25,000 to the University of Glasgow, to be applied for such objects or object in connection with the faculty of medicine as the trustees may determine. The university has also received a legacy of £4,000 from the late Mrs. Caird, widow of Principal Caird, to establish two scholarships in classics or mental philosophy, and a legacy of £5,000 by the late Mr. William Weir, ironmaster, the income of which is to pay for an additional assistant to the professor of materia medica.

THE construction of two new buildings on the campus of the Ohio State University is progressing rapidly. One will house the departments of botany and zoology and entomology; the other, the departments of forestry and horticulture. They will be of brick construction and will cost \$125,000 each, exclusive of equipment.

A NEW course in applied entomology is offered this year at the Ohio State University. The course covers four years and leads to the degree of bachelor of science in entomology. The chief purpose of the course is to train students for the increasing demand coming from various government bureaus, experiment stations and from state and local health boards for advisers and investigators. The university has also established two new combination courses between the College of Arts and the College of Agriculture and designated them arts-culture and arts-home economics courses. The student is registered the first three years in the former college and the last two years in the latter. At the end of the fourth year the degree of bachelor of arts is granted and at the end of the fifth year the degree is either bachelor of science in agriculture or home economics.

DR. H. W. LOEB has been made dean of the St. Louis University School of Medicine. In addition to the appointments of Dr. A. G. Pohlman and Dr. Don R. Joseph, already noted here, to the chairs of anatomy and physiology, Dr. Albert Kuntz, formerly instructor in the University of Iowa, has been appointed assistant professor of experimental biology.

PROFESSOR RALPH S. LILLIE, of the University of Pennsylvania, has been elected head of the biological department of Clark University to succeed Professor Clifton F. Hodge, who has gone to the University of Oregon.

DR. N. J. LENNES, of Columbia University, has been appointed professor of mathematics in the University of Montana.

IN the department of biology and public health of the Massachusetts Institute of Technology Mr. Robert Spurr Weston has been appointed assistant professor.

RECENT appointments in the University of California include the following to positions in the citrus experiment station and graduate school of tropical agriculture, located at Riverside, California: Dr. J. T. Barrett, pathologist of the University of Illinois, has been appointed professor of plant pathology; Professor H. S. Fawcett, pathologist of the California State Department of Horticulture and formerly pathologist of the Florida Experiment Station, has been appointed associate professor of plant pathology; Dr. Howard B. Frost, assistant in plant-breeding, Cornell University, has been appointed an instructor in plant-breeding.

At Grinnell College Dr. Leonidas R. Littleton, instructor in chemistry, has resigned to accept the professorship of chemistry at Emory and Henry College. He has been succeeded by William A. Ziegler, A.B. (Grinnell, '10), A.P. (Oxford, '13), a Rhodes scholar from Iowa. Dr. Louis D. Hartson has been promoted from instructor to assistant professor of psychology and education.

DURING the absence of Dr. David Hilt Tennent, who is on a Carnegie Research Expedition, Dr. Florence Peebles is taking charge of his work in Bryn Mawr College. Dr. Peebles, who was last year fellow of the Association of Collegiate Alumnae, has just returned from a year abroad, where she carried on investigations in the marine laboratories at Naples and Monaco, and also in the University of Freiburg in Breisgau.

At the University of Wisconsin Dr. A. S. Pearse has been promoted to be associate professor of zoology.

At the University of Chicago Professors G. A. Bliss and H. E. Slaught have been promoted to full professorships of mathematics.

DR. J. G. FITZGERALD has resigned as associate professor of bacteriology in the University of California and has been appointed associate professor of hygiene in the University of Toronto.

DR. T. FRANKLIN SIBLY, lecturer in geology at King's College, London, has been appointed professor of geology in the University College of South Wales and Monmouthshire, Cardiff.